PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PATENT APPLICATION **TRANSMITTAL**

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Attorney Docket No. Ross C Willoughby First Inventor Ion and Charged Particle Source

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Express M

ER4UB/825UBUS							
APPLICA"	TION ELEMENTS	/	ADD	RESS TO: BOX P	atent Ap	plication	ents on
	eming utility patent application conter	nts.		Wash	ington, C	OC 202	231
2. Specification (preferred arrangement - Descriptive title - Cross Reference - Statement Regar	mall entity status. [Total Pages 37] set forth below)		(if a _l	CD-ROM or CD-R in or Computer Program (A eotide and/or Amino Acipplicable, all necessary) Computer Readable pecification Sequence L i. CD-ROM or iii. paper	ppendix) d Sequer Form (Countries)) nce Si CRF)	ubmission
	rogram listing appendix		с. Г	Statements verifying	identity	of abo	ove copies
- Background of t - Brief Summary	of the Invention	1		CCOMPANYING A	· ·		
- Brief Description - Detailed Descrip	n of the Drawings (<i>if filed</i>)		9.	Assignment Papers (
- Claim(s) - Abstract of the			10.	37 CFR 3.73(b) Stat	ement		Power of Attorney
4. Drawing(s) (35 U.	<u> </u>] ,	11.	English Translation		nt <i>(if a</i>	pplicable)
5. Oath or Declaration	[Total Pages 3]]	12.	Information Disclosu Statement (IDS)/PT			Copies of IDS Citations
a. Newly execu	uted (original or copy)		13.	Preliminary Amendr			
b. Copy from a	prior application (37 CFR 1.63 (d)) tion/divisional with Box 18 completed)	14.	Return Receipt Pos (Should be specifical	Ily itemiz	ed)	<i>'</i>
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) 15. Certified Copy of Priority Documen (if foreign priority is claimed)				nt(s)			
named in t	he prior application, see 37 CFR and 1.33(b).	*	16.	Nonpublication Req (b)(2)(B)(i). Applicar or its equivalent.	uest und nt must a	ler 35 ittach i	U.S.C. 122 form PTO/SB/35
	Sheet. See 37 CFR 1.76		17.	Other: Amendmen Section 707	7.07(j)····		
18. If a CONTINUING APPLI	CATION, check appropriate box, and	supply th	ne requ	isite information below a	nd in a p	relimir	nary amendment,
or in an Application Data She	Divisional Continuation-in-part	(CIP)	0	f prior application No.:	1		
Prior application information:	-		·	Group Art Unit: _			
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
19. CORRESPONDENCE ADDRESS							
Customer Number or Bar Code Label (Insert Customer No. or Attach bar code) label here) Or Correspondence address below							
Name	Ross C Willoughby						,
	Chem-Space Associates, Inc.						
Address	655 William Pitt Wat				г		
City	Pittsburgh	Sta	ate	PA	Zip C	ode	15238
Country	US	Telepho	one	412-826-3013	Fa	X	412-963-6882
Name (Print/Type)	Ross C Willoughby		Regi	stration No. (Attorney	/Agent)		
Signature	Pa Chilleng W.		$\overline{\ \ }$		Date	2/	23/04

Burden Hour Statement: This form is estimated to take 0.2 hours to complete Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

PTO/SB/17 (05-03)
Approved for use through 04/30/2003. OMB 0651-0032
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

✓ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 6	03, හ
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pond to a wilection of mic	attraction unless it displays a valid Olvid Control number.
Co	omplete if Known
Application Number	
Filing Date	
First Named Inventor	Ross C Willoughby
Examiner Name	
Art Unit	
Attorney Docket No.	

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check Credit card Money Other None	3. ADDITIONAL FEES						
Deposit Account:	<u>Large</u>	Large Entity Small Entity					
Deposit Account.	Fee Code	Fee (\$)	Fee Code	Fee	Fee Description	E D-!-	
Account	1051	130	2051	• •	Surcharge - late filing fee or oath	Fee Paid	
Number Deposit	1052	50	2052		Surcharge - late provisional filing fee or		
Account Name					cover sheet		
The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification		
Charge fee(s) indicated below Credit any overpayments		2,520	1812	•	For filing a request for ex parte reexamination		
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920-	Requesting publication of SIR prior to Examiner action	<u> </u>	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after		
to the above-identified deposit account.	1051	440	2254		Examiner action		
FEE CALCULATION	1251 1252	110 410	2251	55 205	Extension for reply within first month Extension for reply within second month		
1. BASIC FILING FEE	1252	930	2252	465			
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid		1,450	2254	725	Extension for reply within third month		
Code (\$) Code (\$)		•			Extension for reply within fourth month		
1001 750 2001 375 Utility filing fee 375		1,970	2255	985	Extension for reply within fifth month		
1002 330 2002 165 Design filing fee	1401	320	2401		Notice of Appeal		
1003 520 2003 260 Plant filing fee	1402	320	2402		Filing a brief in support of an appeal	——	
1004 750 2004 375 Reissue filing fee	1403	280	2403		Request for oral hearing	 	
1005 160 2005 80 Provisional filing fee	1451 1452	1,510	1451	•	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 37 く		110	2452		Petition to revive - unavoidable		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,300	2453		Petition to revive - unintentional		
Fee from		1,300	2501		Utility issue fee (or reissue)	\vdash	
Extra Claims below Fee Paid Total Claims 3 - 20" = 1 - X 9 = 144	1502 1503	470 630	2502 2503		Design issue fee Plant issue fee		
Independent 3 7 v 42 84	1460	130	1460		Petitions to the Commissioner		
Claims -3 =			l				
Large Entity Small Entity	1807	50	180		Processing fee under 37 CFR 1.17(q)		
Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt Recording each patent assignment per		
Code (\$) Code (\$) 1202 18 2202 9 Claims in excess of 20	8021	40	802	1 40	property (times number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 84 2201 42 Independent claims in excess of 3	1809	750	2809	375	Filing a submission after final rejection (37 CFR 1.129(a))		
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be		
1204 84 2204 42 ** Reissue independent claims	4004	750	2004	075	examined (37 CFR 1.129(b))		
over original patent	1801 1802	750 900	2801 1802		Request for Continued Examination (RCE) Request for expedited examination		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1002	300	1002	900	of a design application		
SUBTOTAL (2) (\$) 228	Other fee (specify)						
**or number previously paid if greater: For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)						

SUBMITTED BY		(Complete (if applicable)		
Name (Print/Type)	Ross C Willoughby	Registration No. (Attorney/Agent)	Telephor	ne 412-826-3013
Signature	(pr 1. hilling)	>	Date	2/23/04

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/S8/35 (11-00)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First Named Inventor		Ross C Willoughby				
Title	lon and Ch	arged Particle Source				
Atty D	ocket Number					

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

2/23/04 Date

Ross C Willoughby

Typed or printed name

Signature

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abendonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of information is required by 37 CFR 1.213(a). The information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief information Officer, U.S. Patent and Tradement Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

In the United States Patent and Trademark Office

Serial Number:							
Appn. Filed:							
Applicant(s):	Ross C Willoughby, Edward	W Sheehar	n, and Carolyn A	A Fries			
Appn Title:	Ion and Charged Particle Source for Production of Thin Films						
Examiner/GAU:		_					
		Mailed:	February	, 2004			
		At.	Pittsburgh, PA				
	Request Unde	r MPEP 707	7.07(j)				
Box Patent Ap	plication						
Commissioner							
Alexandria, VA	22313						
Sir:							
The undersign	ed, pro se applicant(s), respectfu	ully request t	hat if the Examin	er finds patentable			
subject matter	disclosed in this application, but	feels that A	pplicant's present	t claims are not			
entirely suitabl	e, the Examiner draft one or mor	re allowable	claims for applica	ent.			
Very respectfu	Telleng	(Sigi	acture of Inventor	#2			
655 William P	Pitt Way	655	i William Pitt Way	<i>(</i>			
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Pittsburgh, PA	A 15238	Pitt	sburgh, PA 1523	8			
412-826-3013	3	412	2 -826- 3013				
Telephone		Tele	phone				
Caroly	Tries						
Signature of In	ventor # 3						
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